

Recovery Plan Action Status

Plan Name: Recovery Plan for the Bruneau Hot Springsnail (*Pyrgulopsis bruneauensis*)

Plan Status: Final

Plan Date: 30-Sep-02

Lead Agency: USFWS

Lead Office: Idaho Fish And Wildlife Office

(208)

378-3243)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bruneau Hot springsnail (<i>Pyrgulopsis bruneauensis</i>)	1	1.1	Continue implementation of the State of Idaho Bruneau Hot Springsnail Conservation Strategy to meet recovery objective and criteria set forth in this recovery plan	Ongoing Current	FY 2008		State of Idaho	Management: General	Internal Administrative	Four interagency meetings were held during FY2011; 8/20/2010, 9/28/2010, 5/17/2011, 7/27/2011
Bruneau Hot springsnail (<i>Pyrgulopsis bruneauensis</i>)	1	1.2	Implement minimum in-stream flows for Hot Creek for invertebrates and vertebrate fish and wildlife	Not Started			Idaho Department of Water Resources, State of Idaho	Management: Habitat Maintenance and Manipulation, Management: Land Use, Other: Regulations	Internal Administrative	Costs associated with recovery action 1.2 are part of the administration costs of IDWR and BHSSCC
Bruneau Hot springsnail (<i>Pyrgulopsis bruneauensis</i>)	1	1.3	Pursue the permanent acquisition of non-use groundwater rights	Not Started			Idaho Department of Water Resources, Bruneau Hot Springsnail Conservation Committee, U.S. Fish and Wildlife Service	Management: Other	Internal Administrative	Costs associated with recovery action 1.3 can be estimated by IDWR and BHSSCC; remaining costs incurred subsequent to FY 2006
Bruneau Hot springsnail (<i>Pyrgulopsis bruneauensis</i>)	1	1.4	Maintain and evaluate the Groundwater Management area	Ongoing Current	FY 2000 - FY 2004		Idaho Department of Water Resources	Management: General	Internal Administrative	Groundwater Management area established for the bruneau area, costs are part of the administration costs of IDWR
Bruneau Hot springsnail (<i>Pyrgulopsis bruneauensis</i>)	1	1.5	Develop and implement a Water Management District (WMD)	Partially Complete	FY 2007		Idaho Department of Water Resources	Other: Administration	Internal Administrative	Costs associated with recovery action 1.5 are part of the administration costs of IDWR

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Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	1	1.6	Repair leaking artesian wells	Partially Complete	FY 2000 - FY 2004		Idaho Department of Water Resources, Bruneau Hot Springsnail Conservation Committee	Management: Other	Internal Field Assistance	Repair dependant upon identification of leaking wells and fund from BHSSCC; progress evaluation problematic as the State of Idaho OSC does not report expenditures of Service pass-through dollars to the Service or other actions associated with this or other recovery measures.
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	1	1.7	Expand groundwater monitoring in the Bruneau, Sugar, and Little Valleys to include the effects of granting additional water rights	Obsolete			Idaho Department of Water Resources	Research: Other Information	Internal Technical Assistance	groundwater monitoring has been discontinued by the USGS and has been resumed, on a much smaller and more targeted scale, by the Snake River Fish and Wildlife Office. the task is obsolete b/c we have contracted, not expanded, the groundwater monitoring. though this task is obsolete, the more focused monitoring is more useful and cost effective.
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	1	1.8	Implement programs under the USDA NRCS	Ongoing Current	FY 2008		State of Idaho, Bruneau Hot Springsnail Conservation Committee, U.S. Fish and Wildlife Service, Private landowners, Natural Resources Conservation Service	Management: Land Use	Contract	See 1.9 for combined effort

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Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	1	1.9	Improve the efficiency of existing groundwater irrigation systems to conserve the use of geothermal water	Ongoing Current	FY 1995 - FY 1999		State of Idaho, Bruneau Hot Springsnail Conservation Committee, U.S. Fish and Wildlife Service, Private landowners, Natural Resources Conservation Service	Management: Land Use	Contract	During FY2011, a total of 4 conservation projects (1 Custom and 3 Supplemental Irrigation Incentives Program) were implemented. A total of \$4,583 of BHSS conservation funding was used to improve irrigation delivery to 1,460 acres with an estimated annual groundwater savings of 262 acre/feet. Total project costs = \$51,211
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	2	2.1	Continue monitoring of the geothermal aquifer	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service	Management: General, Other, Research: Other Information	Contract	The IFWO contracted with the USGS to evaluate groundwater use in the Bruneau area to determine how individual wells respond to withdrawals and whether water conservation projects by geographic area may be useful to conserve spring habitats.
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	2	3.1	Continue expanded springsnail monitoring program	Discontinued	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Research: Population Surveys	Internal Field Assistance, Species Expert	the expanded springsnail monitoring plan has been discontinued due to funding constraints. the SRFWO has completed similar surveys since 2004. the agreement with the Idaho State University has been terminated as a cost saving measure.

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Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	2	3.2	Continue surveys of all geothermal springs in the recovery area on a biannual or triennial basis	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Research: Other Information, Research: Population Surveys	Internal Field Assistance, Species Expert	the SRFWO has completed this recovery measure since 2004 and will continue to do so for the foreseeable future. Rangewide Bruneau Hot Springsnail surveys were conducted November 16 and 17, 2010. A report was completed in January 2010. The IFWO will be conducting surveys again in November 2011.
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	2	4.1	Develop a habitat restoration plan to facilitate the recolonization of lower Hot Creek by Bruneau hot springsnails	Not Started			Idaho State University, Bruneau Hot Springsnail Conservation Committee, U.S. Fish and Wildlife Service	Management: Planning	Internal Administrative	Costs incurred will be part of FWS and BHSSCC administrative expenses, funding will be appropriated to ISU for research and development of the restoration plan; remaining costs incurred subsequent to FY 2006
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	2	4.2	Implement the habitat restoration plan to facilitate the recolonization of lower Hot Creek by Bruneau hot springsnails	Not Started			Idaho State University, Bruneau Hot Springsnail Conservation Committee, U.S. Fish and Wildlife Service	Management: Habitat Maintenance and Manipulation	Internal Field Assistance	All costs associated with this task will occur subsequent to FY 2006
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	2	5.1	Evaluate the feasibility of controlling non-native fish in the recovery area	Not Started			Idaho Department of Fish and Game	Research: Predation	Species Expert	Costs associated with recovery action 5.1 are part of the administration costs of IDFG

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Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	2	5.2	Develop a non-native fish control program that is not detrimental to the Bruneau hot springsnail	Planned	FY 2009		Idaho Department of Fish and Game	Management: Predator and Competitor Control	Internal Field Assistance	Cost for tasks 5.2 and 5.3 dependent upon design of non-native fish control program utilized. Subsequent costs may be needed to maintain efficacy of fish control program. Planned to net Tilapia in areas of BHSS this fall/winter of 2008 with IDFG
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	2	5.3	Implement a non-native fish control program	Ongoing Current	FY 2010		U.S. Fish and Wildlife Service	Management: Predator and Competitor Control	Internal Field Assistance	An experimental fish removal program was initiated during November 2009 to capture non-native Tilapia zilli, known to feed upon Bruneau HSS. Approximately 100 fish were removed over 2 days. Subsequently, the IFWO developed a fish removal project and purchased materials for exclusion and trap cages. Costs of materials were \$550.
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	2	6.1	Continue to monitor and assess impacts of cattle operations on BLM lands	Complete	FY 1995 - FY 1999	FY 2008	U.S. Bureau of Land Management	Management: Habitat Maintenance and Manipulation	Internal Field Assistance	BLM monitors the impact of cattle grazing on lands within their authority but to what extent this assessment has been carried out with regard to Bruneau hot springsnails is unknown. BLM has completely fence all access to sites with Bruneau hot springsnail
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	2	6.2	Assess and regulate any Federal land exchanges within the Little, Sugar, or Bruneau Valleys	Not Started			U.S. Bureau of Land Management	Other: Administration	Internal Administrative	Ongoing administrative expenses within the Bureau of Land Management

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Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	2	7.1.1	Develop water withdrawal model	Not Started			Idaho Department of Water Resources	Research: Other Information	Internal Technical Assistance	
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	2	7.1.2	Utilize water withdrawal model	Not Started			Idaho Department of Water Resources	Research: Other Information	Internal Technical Assistance	Upon completion of task 6.1.1, costs part of IDWR administrative expenses
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	3	7.2	Evaluate the feasibility of restoring Indian Bathtub and The Hot Creek watershed below as suitable springsnail habitat	Obsolete			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Private landowners	Research: Management Techniques	Internal Technical Assistance	while no formal evaluation has taken place, staff at the SRFWO has considered this action. it is not feasible to restore Indian Bathtub at any time in the foreseeable future as the costs associated with restoration would be tremendous. further, the geothermal aquifer elevation is far below the elevation needed for water to again flow from the Indian Bathtub. geothermal spring water has not flowed from the bathtub in over a decade.
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	3	7.3.1	Evaluate potential translocation sites	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Research: Reintroduction	Internal Technical Assistance	This task cannot be accomplished until higher priority task have been completed and water levels in the aquifer have been assured
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	3	7.3.2	Develop a Bruneau hot springsnail translocation plan	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Management: Planning	Internal Administrative	This task cannot be accomplished until higher priority tasks have been completed and water levels in the aquifer have been assured

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Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	3	7.3.3	Implement a springsnail translocation program	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Management: Reintroduction	Internal Field Assistance	This task cannot be accomplished until higher priority tasks have been completed and water levels in the aquifer have been assured. All costs incurred subsequent to FY 2006
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	3	7.3.4	Monitor translocated colonies	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Research: Population Surveys, Research: Reintroduction	Internal Field Assistance	This task cannot be accomplished until higher priority tasks have been completed and water levels in the aquifer have been assured. All costs incurred subsequent to FY 2006
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	1	8	Secure funding for implementation of recovery tasks	Partially Complete	FY 2008		State of Idaho, Bruneau Hot Springsnail Conservation Committee, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Other: Administration	Internal Administrative	Since 2008, a total of \$115,000 has been obligated towards this fund, with nearly \$51,211 spent to date. Approximately \$64,000 remains with the BSWCD for conservation purposes, and must be spent by August 2013
Bruneau Hot springsnail (Pyrgulopsis bruneauensis)	2	9.1	Biannually assess the overall success of the recovery program and revise recovery plan on a 5-yr basis, if necessary	Not Started			U.S. Fish and Wildlife Service	Other: Administration	Internal Administrative	Remaining costs incurred subsequent to FY 2006